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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/673,360	10/16/2000	Toshihiko Oba	. KOI-046	6711
. 7590 12/12/2005			EXAMINER	
BRINK HOFFERT GILSON & LIONE			PIERRE, MYRIAM	
P.O. BOX 10395 CHICAGO, IL 60610			ART UNIT	PAPER NUMBER
,			2654	

DATE MAILED: 12/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

		Application No.	Applicant(s)				
Office Action Summary		09/673,360	OBA, TOSHIHIKO				
		Examiner	Art Unit				
		Myriam Pierre	2654				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES and I was a state of the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. I period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tinuiting the second will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 24 No.	ovember 2004.					
/—	•	action is non-final.					
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
 4) Claim(s) 35-38,40,42-49,51,112 and 113 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 35-38,40,42-49,51,112 and 113 is/are rejected. 7) Claim(s) 49 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Applicati	ion Papers						
10)□	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the did drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority (under 35 U.S.C. § 119	·					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. p11-037558,9. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice 3) Infor	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					
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DETAILED ACTION

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Response to Amendment

1. Applicant's arguments filed 05/25/2004 regarding Office Action of 11/24/2004, the proposed changes are approved by the examiner, amending the title and the specification and correcting the claim objection, canceling claims 39, 46, 50, and 52; withdrawing claims 53-111; and adding new claims 112-113.

Response to Arguments

2. Applicant's arguments with respect to claims 35- 36, 38-39 and 41 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 35-36, 38, 41-44, 47-48, 51, and 112-113 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rueda (6,157,727) in view of Kupiec (5,500,920).

As to claim 35, Rueda teaches

A prosthetic hearing device (hearing aid, col. 2 lines 56-60) comprising:

a sensor for detecting a speech (microphone, col. 3 lines 1-10);

a speech recognition processor that performs speech recognition on the detected speech (col. 3 lines 23-26);

an output device (output transducer, Abstract) that outputs generated speech to the user Rueda teaches a speech generator (speech recognizer and processor, Fig. 1 and).

Rueda does not teach a speech generator for understanding the semantic meaning detected in speech.

However, Kupiec does teach a speech generator that analyzes results of speech recognition to comprehend a semantic meaning in detected speech transforms to detected speech into speech having a speech form assistive in understanding the semantic meaning in the detected speech (col. 3 lines 45-65).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to implement's Kupiec's semantic recognition into Rueda's speech generator system that would understand the semantic meaning because this would allow disambiguation of cooccurrence information, (Kupiec, col. 2 lines 6-7 and 39-40).

As to claim 36, which depends on claim 35, Rueda teach

A prosthetic hearing device wherein the speech recognition processor performs speech recognition in view of at least one of a purpose for use of the device by the user (language translation, Abstract and col. 3 lines 20-29).

As to claim 38, which depends on claim 35, Rueda teaches

A prosthetic hearing device wherein the speech recognition processor transforms detected speech in view of at least one of a an operating condition of the prosthetic hearing device and a purpose for use of the device by the user (language translation, Abstract and col. 3 lines 20-29).

As to claim 40, which depends on claim 35, Rueda teaches wherein the speech generator transforms the detected speech by adding thereto a modifying language (language translation, Abstract).

As to claim 41, which depends on claim 35, Rueda teaches

wherein the speech generator reproduces a speech previously produced when it determines the results from the speech recognition that it is necessary to reproduce the previously produced speech (col. 3 lines 1-10 and 20-27 and col. 1 lines 1-24; necessary storing information, thus able to reproduce it via speech generator)

As to claim 42, which depends on claim 35, Rueda teaches

wherein the speech generator reproduces speech previously produced when it determines from the result of the speech recognition that it is necessary to reproduce the previously produced speech (col. 1 lines 1-10 and 20-28).

As to claim 43, which depends on claim 35, Rueda teaches the speech data generator controls an output rate of the speech data (col. 3 lines 20-28). As to claim 44, which depends on claim 36, Rueda teaches

the output device outputs the speech using a sample speech data synthesized by the speech generator (col. 3 lines 1-10 and 20-27; necessary in the translating process is a speech synthesized from a speech generator).

As to claim 47, which depends on claim 35, Rueda teaches

the speech generator generates the speech that summarizes the detected speech (col. 3 lines 1-10 and 20-27).

As to claim 48, which depends on claim 35, Rueda does not teach a display.

However, Kupiec teaches a display, wherein the speech generator displays on the display an image associated with the semantic meaning in the detected speech (col. 2 lines 25-30 and lines 38-41).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to implement Kupiec's displaying of semantic meaning into Rueda's speech processing system, because this will allow the user to view the preferred hypothesis. (Kupiec, col. 2 lines 25-30 and lines 38-41).

As to claim 51, which depends on claim 35, Rueda teaches

wherein the sensor selectively detects a speech necessarily from a specific speech source (col. 1 lines 1-10 and 20-27).

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As to claim 112, Rueda teaches

A prosthetic hearing device (hearing aid, col. 1 lines 56-60) comprising:

a sensor for detecting a speech (microphone, col. 3 lines 1-10)

a speech recognition processor that performs speech recognition on the detected speech (col. 3 lines 23-26), wherein the speech recognition processor performs speech recognition in view of at least one of a purpose for use of the device by the user (col. 3 lines 20-29, translation purpose)

an output device (output transducer, Abstract) that outputs generated speech to the user Rueda teaches a speech generator (speech recognizer and processor, Fig. 1 and).

Rueda does not teach a speech generator for understanding the semantic meaning detected in speech.

However, Kupiec does teach a speech generator that analyzes results of speech recognition to comprehend a semantic meaning in detected speech transforms to detected speech into speech having a speech form assistive in understanding the semantic meaning in the detected speech (col. 3 lines 45-65).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to implement's Kupiec's semantic recognition into Rueda's speech generator system that would understand the semantic meaning because this would allow disambiguation of cooccurrence information, (Kupiec, col. 2 lines 6-7 and 39-40).

As to claim 113, Rueda teaches

A prosthetic hearing device (hearing aid, col. 1 lines 56-60) comprising:

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a sensor for detecting a speech (microphone, col. 3 lines 1-10)

a speech recognition processor that performs speech recognition on the detected speech (col. 3 lines 23-26), wherein the speech recognition processor performs speech recognition in view of at least one of a purpose for use of the device by the user (col. 3 lines 20-29, translation purpose)

an output device (output transducer, Abstract) that outputs generated speech to the user a speech generator (speech recognizer and processor, Fig. 1)

Rueda does not teach a speech generator for understanding the semantic meaning detected in speech.

However, Kupiec teaches a speech generator that analyzes results of speech recognition to comprehend a semantic meaning in detected speech transforms to detected speech into speech having a speech form assistive in understanding the semantic meaning in the detected speech (col. 3 lines 45-65).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to implement's Kupiec's semantic recognition into Rueda's speech generator system that would understand the semantic meaning because this would allow disambiguation of cooccurrence information, (Kupiec, col. 2 lines 6-7 and 39-40).

5. Claims 37 and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rueda (6,157,727) in view of Kupiec (5,500,920), as applied to claim 37, in further view of Yamaha Corp (JP 08116596 A).

As to claim 37, which depends on claim 35, Rueda teaches

a speech recognition generator (speech recognizer and processor, Fig. 1).

Rueda in view of Kupiec do not teach a speech recognition processor performing one of speaker recognition.

However, Yamaha Corp teaches speaker recognition (Abstract).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to implement the speaker recognition system of Yamaha Corp into the apparatus of Rueda in view of Kupiec, because an artisan of ordinary skill in the art would have implemented the speaker recognition system that would assist weakened hearing function especially due to old age (Yamaha Corp, Abstract and Advantage).

As to claim 45, which depends on claim 37, Rueda teaches

a memory that has stored samples of speech data (Abstract, necessary in translating process), wherein the output device outputs the sound speech data using sample speech data selected by the speech data generator from the memory (col. 3 lines 1-10 and 20-27; necessary in the translating process is a memory).

Allowable Subject Matter

6. Claim 49 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See attached PTO-892.

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Myriam Pierre whose telephone number is 571-272-7611. The examiner can normally be reached on 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on 571-272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MP 11/23/2005

ANGELA ARMSTRONG PRIMARY EXAMINED

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